



FY 2010 NOAA BUDGET HIGHLIGHTS



Research & Climate

(Office of Oceanic and Atmospheric Research)

The Office of Oceanic & Atmospheric Research (OAR) requests \$404.6M in FY 2010, reflecting a net decrease of \$3.7M from the FY 2009 Omnibus. The decrease is primarily the result of the termination of a number of FY 2009 projects. This budget request supports NOAA's environmental research and development needs with expanded climate products and services, weather and air quality research, enhanced computing and modeling, and the development of management tools necessary for managing our changing ecosystems. Program changes are relative to the FY2010 base which is the FY 2009 Omnibus level less terminated projects plus inflationary adjustments.

FY 2010 Program Change Highlights

National Climate Model Portal +\$2.5M: Decision makers are increasingly seeking information that will help their communities plan and respond to climate variability and change. With this request, NOAA will generate and store model data records and create an archive for future high-resolution weather and climate datasets.

U.S. Climate Reference Network (USCRN) +\$1.3M: High quality observations are necessary to improve our understanding of climate variability and climate change. With this request, NOAA will begin the deployment of USCRN benchmark observing stations at 29 locations in Alaska to better document, monitor, and assess climate variability and change. Full deployment in Alaska will complete the national Network.

National Integrated Drought Information System (NIDIS) +\$4.6M: In the past year the Southeastern United States has experienced the most severe drought in over a century. With this request, NOAA will implement three drought early warning system development projects in California, Colorado, and the Southeastern US, as well as develop and implement the next generation Climate Forecast System, which will lead to improved NOAA climate forecast products.

Decadal Climate Predictions +\$2.6M: With this request, NOAA will develop the capability to make ongoing decadal climate predictions including sea-level projections, Arctic forecasts, and early warnings of climate 'surprises' resulting from natural climate variations on decadal timescales.

Ocean Acidification Monitoring +\$4.0M: NOAA has made it a high priority to understand climate-ecosystem interactions, particularly ocean acidification impacts on biological productivity and distribution. With this request, NOAA will equip 13 open-ocean and 7 coastal moorings with additional sensors to monitor the changes in the pH of the global ocean resulting from the uptake of



anthropogenic emissions, such as CO₂. NOAA will establish an ocean-acidification monitoring and research team and develop an ocean-acidification data management system in 2010.

Weather Research & Forecasting (WRF) Developmental Testbed Center (DTC) + \$2.0M: With this request, NOAA will continue to build the Weather Research and Forecasting (WRF) Developmental Testbed Center (DTC) as the new vehicle for leveraging the modeling capabilities for Federal, academic, and private numerical modelers. Funds will also be used to conduct real-time, high-resolution hurricane intensity forecast experiments throughout 2010.

Severe Weather Forecast Improvements +\$2.6M: With this request, NOAA will perform research and development activities to enable forecast offices to issue tornado warnings with a 30 minute lead time or greater in order to save lives and mitigate property damage during severe weather events. NOAA will also improve forecasts of hail, straight-line winds, heavy rain, & flash floods

Multi-Function Phased Array Radar (MPAR) +\$1.0M: With this request, NOAA will continue to research MPAR technology in order to replace existing aging operational weather and aircraft tracking radars in a cost effective manner.

OAR FY 2010 Budget Request (\$ in Millions)				
	FY 2008 Enacted	FY 2009 Omnibus	FY 2010 Request	FY10 Request vs. FY09 Omnibus
ORF	\$387.9	\$396.7	\$394.2	(\$2.5)
PAC	\$10.1	\$11.6	\$10.4	(\$1.2)
TOTAL	\$398.1	\$408.3	\$404.6	(\$3.7)

For more information, contact the NOAA Budget Office: (202) 482-4600 or AskNOAABudget@noaa.gov.